Features

1). PCI Express

- Fully compliant with PCI Express Base Specification, Revision 1.0a
- PCIe Multi Function Peripheral controller with x1 Lane Interface
- Support for D1, D2, D3hot and D3cold
- Utilizes 100-MHz Differential PCI Express Common Reference Clock
- Support PCIe Power Management

* Please note some sections of the manual are only applicatable for the production that have such functions.

2). Serial Port

- fully independent two asynchronous serial ports, compatible with 16C550, 16C552, 16C554 and 16C750 and has been enhanced.
- Support for 5,6,7 or 8 data bits and 1 or 2 stop bits.
- Support odd, even, no parity, blank 0, signs a check mode, etc..
- Programmable communication baud rate, as well as support 115200bps baud rate of up to 8Mbps.
- Built-in 256-byte FIFO buffer, supports four FIFO trigger level.
- Support MODEM modem signals CTS, DSR, RI, DCD, DTR, RTS, be converted into Rs232 level.
- Support for hardware flow control signals CTS and RTS automatic handshake and automatic transmission rate control, compatible with TL16C550C.
- Supports serial framing error detection, support Break Line Break detect.
- Supports full and half duplex serial communication.

3). IEEE1284 Parallel Port

- Supports SPP, Nibble, Byte, PS / 2, EPP, ECP and other IEEE1284 parallel / printer port work.
- Support for bi-directional data transfer, support up to 1M bytes / sec transfer rate.

Installing the PCI Express I/O card to your computer

1). Turn off your computer and all devices connected to it.
2). Remove the Computer's cover, Refer to your computer user's manual for more details.
3). Find an unused PCI Express slot and remove the metal bracket. Save the bracket screw for later use.
4). Align the card horizontally with respect to the PCI slot and insert it into the slot. Once you have properly positioned the PCI Express I/O card into the slot. secure the PCI Express I/O card with the bracket screw you have saved.
5). Replace the computer's cover.

Applications

- Serial Attached Devices
- Serial Networking/Monitoring Equipment
- Data Acquisition System
- POS Terminal & Industrial PC

- Parallel/Printer Port based applications
- Add-On I/O Cards - Serial/Parallel/USB
- Embedded systems - For I/O expansion

Package

1. PCI-e I/O card
2. Driver CD
3. User manual
4. Bracket with COM ports (subject to different models)

Software Support

- Windows98/98SE/ME
- Windows 7/Vista/XP/Server 2003/Server 2000(32bit only)/ME/98SE
- Linux Kernel 2.4 & 2. 6
- Mac 10.4 & above

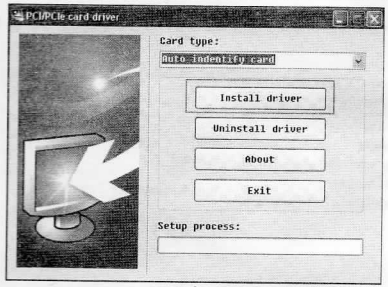
1). Driver Locations

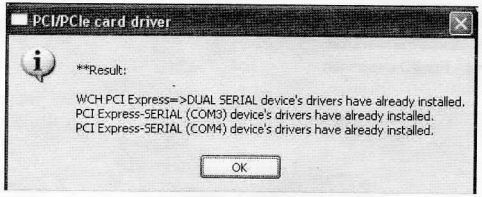
All the drivers for the Following PCI Express cards are located in these directories of the Driver CD.

:\WCH\CH38X\DVR_1P	**1P**
:\WCH\CH38X\DVR_2S	**2S**
:\WCH\CH38X\DVR_2S1P	**2S1P**
:\WCH\CH38X\DVR_4S	**4S**
:\WCH\CH38X\DVR_8S	**8S**
:\WCH\CH38X\SETUPX64	
:\WCH\CH38X\PCISETUP	**all Modes**

Installing Windows2000/XP/2003Server/Vista/7 Driver

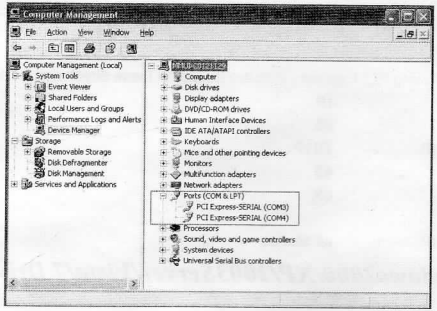
Installing drivers for the first time:
Make sure that you have inserted PCIe card into PCIe slot.
Run "**PCISETUP.exe**" file from the driver disk folder. You will see a window as shown below:




PCI/PCIe card driver
**Result:
WCH PCI Express=>DUAL SERIAL device's drivers have already installed.
PCI Express-SERIAL (COM3) device's drivers have already installed.
PCI Express-SERIAL (COM4) device's drivers have already installed.
OK

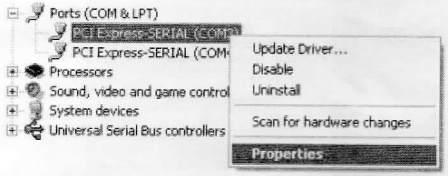
Verifying Driver Installation

Please check the required configuration from Device Manager to confirm the proper installation. For Example proper detection of the WCH382 PCIe Card (2 Serial) can be confirmed by viewing the Device manager as shown below:



Serial Port Properties Sheet

In the Device Manager Right Click on required Port and click on "Properties" Option to open the Properties page.

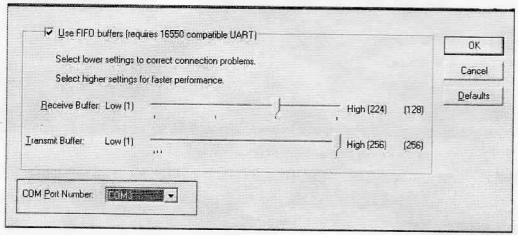


General TAB :

The "**General**" TAB provides you details about "**Device Type**", "**Manufacturer**" and "**Device Status**".
The "**Port Settings**" TAB is used to configure parameters of the Serial Port.

Bits per Second selection is used to set the default Baud rate settings.
Data bits selection will have options 4, 5,6,7 and 8 data bits.
Parity selection will have Even, Odd, None, Mark and Space parity settings.
Stop bits selection will have 1,1.5 and 2 selections.
Flow Control selection will have Xon_Xoff, Hardware and None settings.

If you want to change the Port Number click on "Change Port Number" and select the required Port Number as shown below:

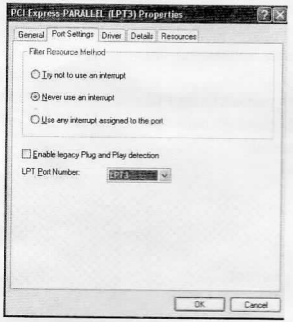

Use FIFO buffers (requires 16550 compatible UART)
Select lower settings to correct connection problems.
Select higher settings for faster performance.
Receive Buffer: Low (1) High (224) (128)
Transmit Buffer: Low (1) High (256) (256)
OK
Cancel
Defaults
COM Port Number: COM3

The Driver TAB shows the details of Driver Provider, Driver Release Date, Driver version is installed on your PC and Digital Signer details as shown above.

Parallel Port Features

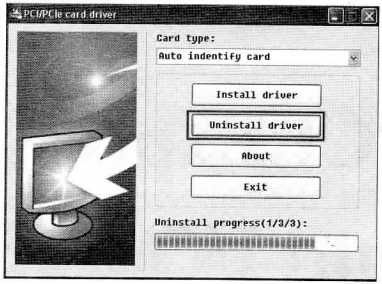
Parallel Port Features:

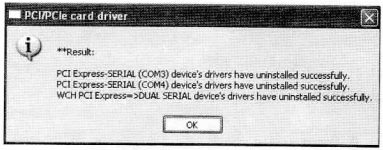
Parallel port will support SPP/CBFIFO/ECP/EPP modes.. In this mode, Parallel port mode will be automatically configured to the required mode after handshaking with the connected device.



Uninstalling Drivers

To Uninstall WCH drivers, run "CH38X_PCISETUP.exe" file available in the driver disk.




PCI/PCIe card driver
**Result:
PCI Express-SERIAL (COM3) device's drivers have uninstalled successfully.
PCI Express-SERIAL (COM4) device's drivers have uninstalled successfully.
WCH PCI Express->DUAL SERIAL device's drivers have uninstalled successfully.
OK

ote: Make sure that you should uninstall any previous driver before installing updated drivers.